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## MODULE DESCRIPTOR

### Module Title

Radiographic Appearances of Musculo-skeletal Patho-physiology and Trauma

Reference	HSM132	Version	5
Created	December 2019	SCQF Level	SCQF 11
Approved	March 2013	SCQF Points	15
Amended	June 2020	ECTS Points	7.5

### Aims of Module

The aim of the module is to enable the participant to develop the knowledge base, interpretive and evaluative skills required for recognition of patho-physiological appearances demonstrated on diagnostic images of the appendicular and axial musculo-skeletal systems.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Interpret and evaluate physiological, pathological and traumatic appearances demonstrated on diagnostic images of the appendicular and axial musculo-skeletal systems.
- 2 Critically appraise and communicate patho-physiological and trauma related findings in a holistic manner relative to the clinical presentation of the patient.
- 3 Critically assess the factors involved in pattern recognition, image interpretation and the reporting of clinical findings in the context of patho-physiological appearances.
- 4 Critically evaluate the significance of normal variant appearances that may be demonstrated on diagnostic images of the appendicular and axial musculo-skeletal systems.

### Indicative Module Content

Clinical application of the principles of pattern recognition and image interpretation of diagnostic images of the appendicular and axial musculo-skeletal systems (adult and paediatric); Principles of reporting, specific to the appendicular and axial musculo-skeletal system; Radiological appearances of normal and pathological presentations of the appendicular and axial musculo-skeletal systems; Normal variants; Role of other imaging modalities in the diagnosis of appendicular and axial musculo-skeletal conditions; Radiation dose, protection and risk; Assessment and significance of clinical information in the context of the diagnostic pathway.

### Module Delivery

Lectures, tutorials, workshops and virtual learning environment activities

**Indicative Student Workload**

	Full Time	Part Time
Contact Hours	N/A	60
Non-Contact Hours	N/A	90
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	N/A	150
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

**ASSESSMENT PLAN**

*If a major/minor model is used and box is ticked, % weightings below are indicative only.*

**Component 1**

Type:	Examination	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4
Description:	Computer based objective structured clinical examination (OSCE)				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

The module is assessed by a computer based objective structured clinical examination (OSCE) which is graded on an A-F basis.

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	A
<b>B</b>	B
<b>C</b>	C
<b>D</b>	D
<b>E</b>	E
<b>F</b>	F
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	Honours degree, or equivalent, in a relevant health care discipline.
Corequisites for module	HSM131; HSM133; HSM134
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 DEPARTMENT OF HEALTH (DOH), 2017. i: Ionising radiation (medical exposure) regulations. Norwich. ii. DOH. / REGULATION AND QUALITY IMPROVEMENT AUTHORITY (RQIA), 2018. Ionising radiation (medical exposure) regulations (Northern Ireland). Belfast: RQIA.
- 2 HEALTH AND SAFETY EXECUTIVE (HSE), 2017. i: Ionising radiation regulations. London. ii: HSE. / HEALTH AND SAFETY EXECUTIVE NORTHERN IRELAND (HSENI), 2017. Ionising radiation regulations (Northern Ireland). Belfast: HSENI.
- 3 HOLMES, E.J. & MISRA, R.R., 2006. A-Z of emergency radiology. Cambridge: Churchill Livingstone.
- 4 McCONNELL, J., EYRES, R. & NIGHTINGALE, J., 2005. Interpreting trauma radiographs. Oxford: Blackwell Publishing Limited.
- 5 PEH, W |Editor., 2017. Pitfalls in Musculoskeletal Radiology. Cham: Springer International. (Ebook)
- 6 RABY, N., BERMAN, L., MORLEY, S. & De LACEY, G., 2014. *Accident & emergency radiology: a survival guide*, 3rd ed. London: Saunders Limited.
- 7 RAFIEE, H., 2019. *Chapman & Nakielny's aids to radiological differential diagnosis*, 7th ed. London: Elsevier.
- 8 SOCIETY AND COLLEGE OF RADIOGRAPHERS (SCoR), 2009. *Practice standards for the imaging of children and young people*. London: SCoR.